

**PARALLEL DATA TRANSFER OVER MULTIPLE CHANNELS WITH DATA  
ORDER PRIORITIZATION**

**ABSTRACT**

A parallel download system is described to download data from a plurality of source servers in parallel. The system may include a source scheduler, a prioritization scheduler, and an I/O dispatcher. The source scheduler generates a download schedule to control which source servers will be downloaded from at a current point in time. The prioritization scheduler tracks the latency and throughput of all channels to the source servers and dynamically adjusts the download schedule to control download performance. The I/O dispatcher produces an output stream to present the downloaded data to one or more external applications or a user.